SIEMENS

SiP-Phone
optiPoint 400 standard SIP V2.0

Installation and Startup

The device conforms to the EU guideline 1999/5/EG, as attested by the CE mark.

This device has been manufactured in accordance with our certified environmental management system (ISO 14001). This process ensures that energy consumption and the use of primary raw materials are kept to a minimum, thus reducing waste production.

Warnings!

– This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

– If the optiPoint 400 standard SIP is supplied with power over the LAN interface, the power source must be a limited power source PowerHub compliant with IEC 60950.

Note! (for U.S.A and Canada only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

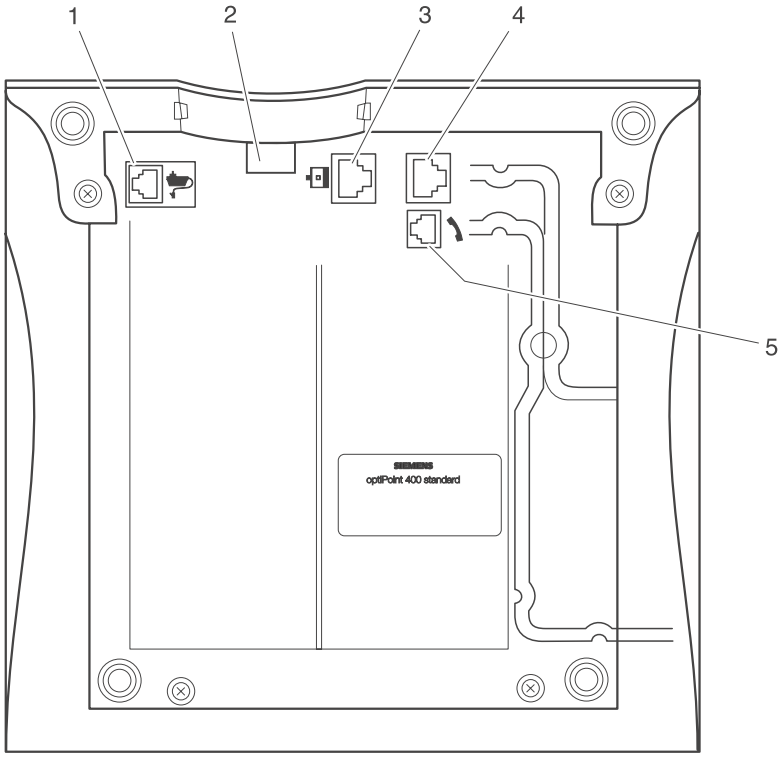
This product is a UL Listed Accessory, I.T.E., in U.S.A. and Canada.

This guide for Installation and Startup describes how to connect the components of the optiPoint 400 standard SIP telephone and how to integrate the telephone into a LAN environment.

Administrators will find more detailed information in the “Administrator Manual”.

Preparing the telephone

> **Warning!**
> You must connect the optiPoint 400 standard SIP first to the LAN and after that to the power supply.



Housing elements and connections on the bottom of the telephone:

1	Connector for a local power supply unit (optional)
2	Strain relief
3	10/100 Mbit/s Ethernet port for LAN connection, autonegotiating (optionally including power supply)
4	10/100 Mbit/s Ethernet port for optional connecting of a PC/workstation, autonegotiating
5	Handset connector

The two cable ends of the handset cord are equipped with identical four-pin Western plugs (RJ 11).

If power is supplied over the LAN cable, no local power supply is required. To connect the telephone components:

- Plug the short end of the handset cable into the handset and the other end into the connector at the bottom of the telephone (5). Feed the cable through the guide channel in the base unit.
- Plug a LAN cable into the connector (3) of the telephone, and connect with your LAN.
- Optionally you can connect a PC or a workstation directly to the telephone. Plug a LAN cable into the connector (4) of the telephone, and the other end into the PC/workstation connector.
- Plug the red Western plug of the optional power supply unit cable into the connector (1) on the bottom of the telephone. Feed the cord through the strain relief clamp (2).

The Western plugs of all cable connections must audibly snap into place.

- Feed the cables through the relief on the back of the housing and fix them by means of the cable clip.

Integrating the telephone into the communication environment

Adaption to an existing network

1. Ask your network administator to assign an Ethernet port (10Base-T or 10/100Base-T) to your telephone. When the telephone is connected to the network, the Ethernet parameters are configured automatically.
2. Ask the administrator if the network contains a DHCP server and a SNTP server.
   If no DHCP server exists he or she has to provide you with IP addresses for the telephone and the default router as well as with the subnet mask, which you have to enter into your telephone manually.
   If no SNTP server exists, you have to enter time and date manually into your telephone.

If a DHCP server exists, continue on page 6, if no DHCP server exists, continue on page 8.

Like all terminal equipment connected to a LAN, the optiPoint 400 standard SIP must have an IP address assigned. The procedure for setting up the network environment for the telephone is described below.

The telephone is only then reachable via an E164 number or Unified Resorce Locator (URL), when there is a SIP Server in the IP network, and when the telephone successfully has registered with this SIP server. Otherwise it is only reachable via IP address.

If the optiPoint 400 standard SIP is used in an environment with an integrated DHCP server, the telephone unit will automatically get an IP address from it when you connect the DHCP server to the LAN for the first time. Otherwise, you must manually enter an IP address for the unit. You have to enter manually the unit's telephone number in any case.

Setting up the telephone in a LAN environment with DHCP server

The DHCP server can assign to the telephone a Terminal IP Address, a Terminal Mask, a Default Route, a SNTP IP Address, and a Timezone Offset.

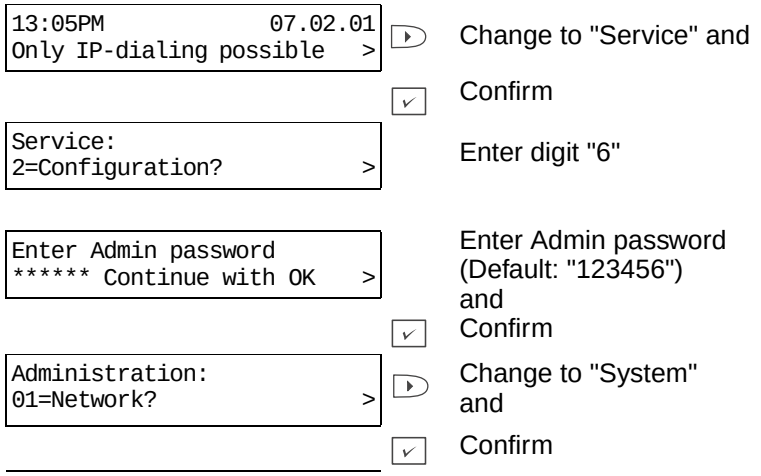
The telephone is shipped in the default 'Server' mode, and you are required to enter a SIP server IP address for the telephone to register with the SIP server.

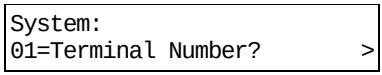
The registrar must also be set to Server routed mode. Both the server and the registrar can be set using an IP address or a name. If a name is used then DNS will be used to resolve the address.

It is also possible to dial by number when the telephone is Gateway routed. In this mode the phone is not registered but will forward and address entered numbers directly to the Gateway.
Example: if the Gateway IP address is 192.123.230.1 and the number 3452341 is dialed, the following address will be forwarded to the Gateway: 3452341@192.123.230.1. The Gateway resolves and routes the number.

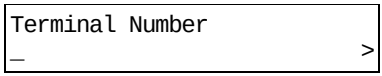
Without proper registration or when not Gateway routed, the telephone can only dial IP addresses.

You are also required to enter the telephone number of the telephone.

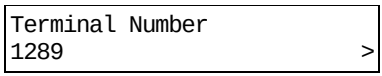




Confirm

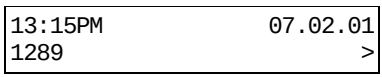


Enter the telephone number assigned to this telephone set and



Confirm

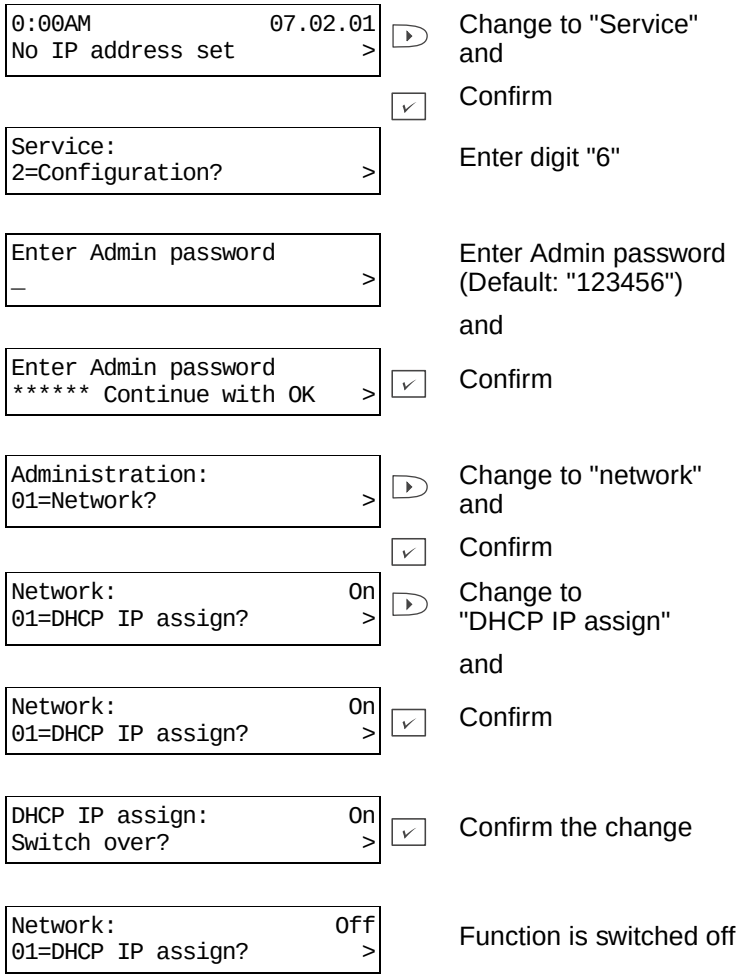
Following the entry of your own telephone number and the configuration of the SIP Server/SIP Gateway related parameter, the telephone changes over to its normal operating mode (Basic menu). You can now receive and make calls.



Basic menu

Setting up the telephone in a LAN environment without DHCP server

If there is no DHCP server integrated into your environment, you have to enter the IP address and the subnet mask manually via your dialling keypad.
First you have to switch off the DHCP function.



Stay in the "network" menu and enter an IP address for the telephone and for the subnet mask:

```
Network:                  Off
01=DHCP IP assign?          >
```

Change to "Terminal IP addr."

and

```
Network:              0.0.0.0
02=Terminal-IP addr.?       >
```

Confirm

```
Terminal-IP addr.     0.0.0.0
Change?                     >
```


Confirm

Press the asterisk key (*) on your key pad to move between the separation points for the IP address.

```
Terminal-IP addr.
000.000.000.000
```

Enter new IP address

and

```
Terminal-IP addr.
19.3.35.112
```

Confirm

```
Network:           19.3.35.112
02=Terminal-IP addr.?       >
```

Entered IP address is shown

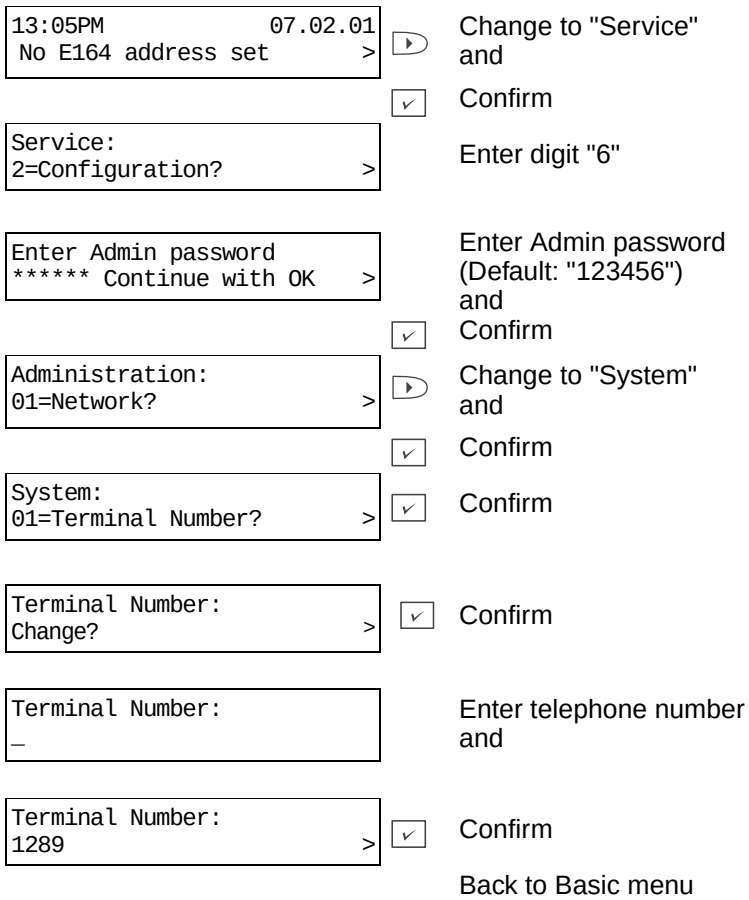
Back to Basic menu

Repeat these steps for the menu choice "03=Terminal mask" to enter the corresponding mask IP address.

After changing IP addresses, you will be prompted to restart the phone. The change will otherwise not become effective.

Assigning a telephone number (E.164)

After restarting your telephone you have to assign a telephone number to your optiPoint 400 standard SIP. The following display is shown:



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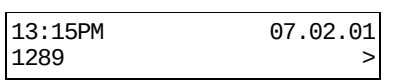
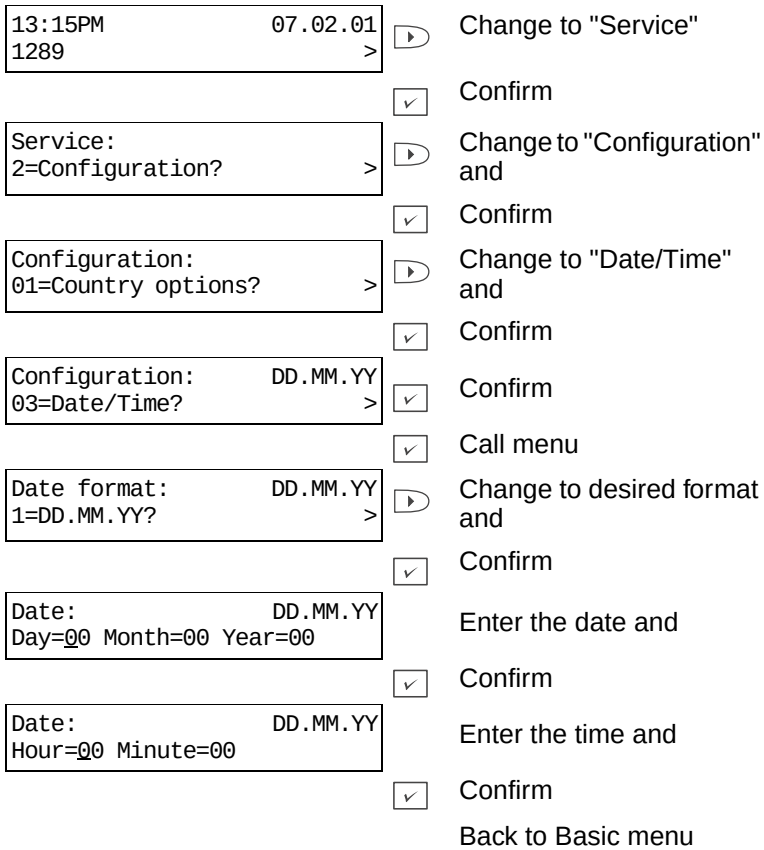


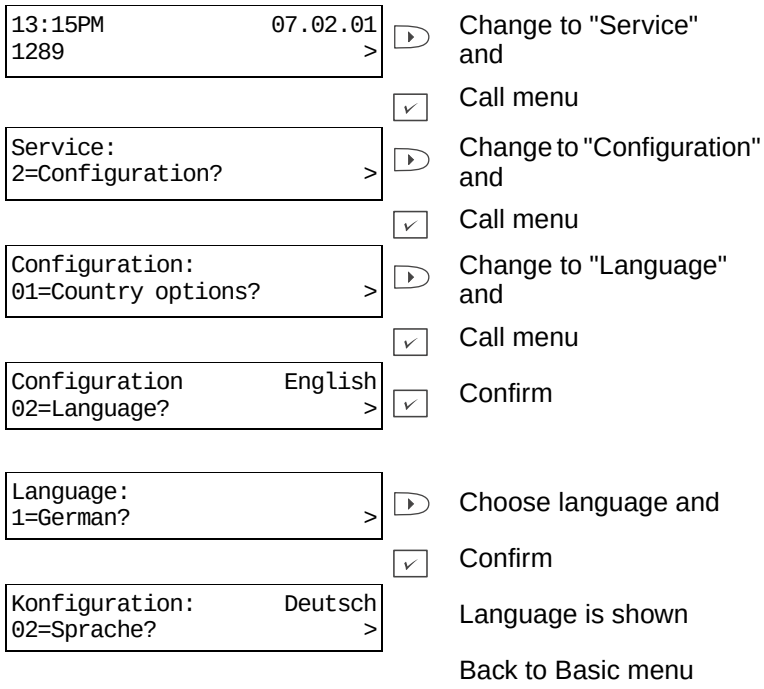
Setting date and time

If no SNTP server is accessible in your network environment, you have to set manually the time and date of your telephone:



Setting language for operator prompting

You can define your language for the display text of the telephone:



Englisch/English

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